



CONTENTS *continued*

	<i>Page</i>
The Federal Radiation Council..... <i>Arthur S. Flemming</i>	1107
Chlorinated organic pesticide residues in fluid milk..... <i>Paul A. Clifford, Jonas L. Bassen, and Paul A. Mills</i>	1109
Kentucky home care.....	1115
Fetal and early neonatal deaths in Onondaga County, New York..... <i>Edward R. Schlesinger, Ruth K. Beecroft, Hilda F. Silverman, and Norman C. Allaway</i>	1117
Sampling microbiological aerosols.....	1123
1959 index.....	1127
Short reports and announcements:	
Observance date for Child Health Day changed.....	1040
The Yearbook of Agriculture, 1959.....	1047
American nurse in Moscow. International mail pouch.	1048
Grants for extramural research in nursing.....	1058
New Index Medicus.....	1070
Health manpower outlook.....	1085
Signs and symptoms.....	1106
Summary of a doctoral dissertation.....	1108
Deaths from septicemia.....	1114
Cutler on special assignment.....	1116
International Conference on Mental Retardation.....	1124
Federal publications.....	1125

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A summary and information on availability appear on page 1123.



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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

ARTHUR S. FLEMMING, *Secretary*

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ECNOSES

EXPERIMENTAL STUDIES OF NATURAL PURIFICATION IN POLLUTED WATERS

IV. THE INFLUENCE OF THE PLANKTON ON THE BIOCHEMICAL OXIDATION OF ORGANIC MATTER

By C. T. BUTTERFIELD, *Bacteriologist*, W. C. PURDY, *Plankton Expert*, and E. J. THERIAULT, *Chemist, United States Public Health Service*.

The abstraction of dissolved oxygen from polluted water during the natural purification process is a well-known phenomenon. It is also well known that the amount of dissolved oxygen used up is definitely related to the amount of pollution present. While these facts in regard to the natural purification of polluted water are well established, the mechanism by which the oxidation is accomplished can only be surmised. For instance, if a portion of polluted water is examined, many bacteria and plankton are found. If all of these organisms are killed or removed from the water, oxidation ceases. The interrelation of these biological factors and the part that each plays in the process of natural purification constitute the subject of this study.

Extensive studies are described in the literature on the rate and extent of biochemical oxidation of polluted water. In general, these studies have been confined to a determination of the amounts of dissolved oxygen absorbed after various periods of incubation at different temperatures without reference to the biological factors con-

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C. T. Butterfield, W. C. Purdy, and E. J. Theriault advanced the theory that the chief function of certain plankton in the biochemical oxidation process was to reduce bacteria below the saturation point, thus providing conditions suitable for bacterial multiplication, which resulted in more complete oxidation. In a series of seven articles they reported experimental studies of the interaction of biological factors in the natural purification of polluted waters.

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THIS INDEX to *Public Health Reports* and Public Health Monographs is divided into a subject index and an author index.

The subject index carries one or more entries for each item published. In addition to the subject headings, categorical headings include ANNOUNCEMENTS (EXAMINATIONS, ORGANIZATIONS, PERSONNEL), CONFERENCE REPORTS, DEATHS, LEGAL NOTES, and MONOGRAPHS.

Public Health Monographs published concurrently with *Public Health Reports* in 1959 are listed in numerical order under the category heading MONOGRAPHS. The monograph summaries appearing in the journal are indexed under appropriate subject headings.

One asterisk before the page number indicates an original, signed article. The sign of two asterisks, used only in the author index, indicates a monograph. Entries without any symbol may refer to summaries or briefs of papers presented at conferences, narrative conference reports, statements or reports of committees, short reports without authors, or similar items.

Illustrative material on the inside of the front cover of each issue is indexed by month under the heading FRONTISPIECES. It is recommended that the covers be included in a bound volume.

An annual list of Public Health Service publications may be obtained from the Public Inquiries Branch, Office of Information.

Subject Index

ACCIDENTS		AIR POLLUTION—Continued	
collection of data, U.S. National Health Survey methods.....	*195	control, rational approach.....	425
epidemiological data from death certificates.....	259	control, responsibilities of local health agencies; statement by Conference of Municipal Public Health Engineers.....	181
hospital data on patients treated for trauma, New York City.....	260	economic aspects, education of public and industry in.....	420
in childhood, characteristics.....	259	effect on function of lungs.....	412
in childhood, mortality and morbidity, prevention, in Western Hemisphere.....	*523	effects and progress toward abatement; conference report (15 briefs).....	409
traffic, relationship to street level carbon monoxide concentrations.....	913	effects of irritants on lungs.....	410
traffic, synchronizing roles of State agencies for prevention.....	*163	effects on health.....	409
use of local sources to obtain data.....	259	fluoride emission, liability for; legal note..	104
ADMINISTRATION		forecasting procedure.....	913
activity calendar devised by local health department.....	*700	industrial plant survey, Michigan.....	914
Citizens Medical Committee on Health, Florida, recommendations for strengthening health programs and services.....	*711	municipal control of; legal note.....	749
Federal budget process.....	*783	street level carbon monoxide concentrations, relationship to traffic accidents.....	913
AGED		ALASKA	
attitudes toward free health examinations..	234	acute diarrhea, incidence in arctic and sub-arctic communities.....	*49
care of, community programs.....	*333	Asian influenza, outbreak on two islands..	*737
geriatric clinic, role of public health nurse as coordinator.....	*601	enteric infections in Eskimos, seasonal.....	*55
meals-on-wheels projects for aged and handicapped.....	923	prevalence of tuberculin sensitivity and tuberculosis among natives of the lower Yukon.....	*621
mental health program, Philadelphia.....	*849	ALCOHOLISM	
retirement; financing, health, housing, preparation, and uses; conference report..	1075	American Medical Association action.....	217
senility prevention program, Philadelphia..	750	control activities of health agencies, California.....	219
White House Conference planned for 1961..	1079	epidemiological data needed on problem drinkers.....	218
AIR POLLUTION		in industry; work experiences, prevalence, cost.....	*153
abatement and research, Florida phosphate industry.....	419	AMERICAN MEDICAL ASSOCIATION	
abatement, automobile industry.....	417	action on alcoholism.....	217
abatement or avoidance, chemical industry..	419	review of activities.....	*615
abatement, steel industry.....	417	ANIMAL DISEASES	
air monitoring, guidelines for.....	424	<i>see also</i> name of disease	
air monitoring, University of California, 5-year data.....	914	spontaneous, control in laboratory animals..	*165
and chronic bronchitis, Great Britain.....	414	ANNOUNCEMENTS, ORGANIZATIONS	
association with lung cancer, laboratory evidence.....	413	Air Pollution Control Association, 1959 meeting ..	273
automobile exhausts, health hazards.....	*551	Alaskan Interagency Research Advisory Committee formed.....	381
automobile exhausts, pollutants from.....	416	American Society of Mechanical Engineers, Pittsburgh Section; 1959 meeting on air pollution ..	260
control, citizen participation, Philadelphia..	426	Division of Public Health Nursing, PHS, established ..	83
control, government levels of responsibility..	422		

ANNOUNCEMENTS, ORGANIZATIONS—Continued	
Division of Water Pollution Control, PHS, established	484
Shellfish Sanitation Laboratory, RATSEC, new address.....	398
Surgeon General's Consultant Group on Medical Education, PHS, first meeting..	20
ANNOUNCEMENTS, PERSONNEL	
Arnold, Richard C., appointed Assistant Surgeon General for Personnel and Training, PHS.....	822
Chadwick, Donald Roger, named secretary of Federal Radiation Council.....	1008
Cutler, John C., assigned to Allegheny County, Pa., Health Department.....	1116
Dean, H. Trendley, retires as secretary of the Council on Dental Research, American Dental Association.....	778
Kevan, Robert A., named Departmental Coordinator of International Affairs, DHEW	126
Krusen, Frank H., appointed special assistant to director for health and medical affairs, Office of Vocational Rehabilitation	1008
PHR Board of Editors, new members.....	968
Schaeffer, Morris, named director of bureau of laboratories, New York City Health Department	1008
Stebbins, Ernest Lyman, appointed chairman of PHR Board of Editors.....	558
Wright, Robert Dean, appointed assistant director for medical and health activities, Office of Vocational Rehabilitation.....	1008
ANTIBIOTICS	
chlortetracycline, use for fish preservation authorized	499
ATHEROSCLEROSIS	
diet record technique for studies of.....	*298
AWARDS	
Eighth Kimble Methodology Research Award, deadlines for nominations.....	209
BEHAVIOR	
research in motivation, applications to public health action.....	224
BERYLLIUM	
chronic beryllium disease, Pennsylvania....	911
BIRTH RATES <i>see</i> Vital Statistics	
BLINDNESS	
causes in children studied, California.....	*444
BRONCHITIS	
chronic, and air pollution, Great Britain....	414
BUERGER'S DISEASE	
reevaluated	811
CAMPS	
sanitation practices and vector control at National Boy Scout Jamborees.....	*349

CANCER	
and other diseases, mortality statistically related to tobacco smoking.....	*581
bladder, relationship to metabolism of aromatic amines.....	911
cell detection.....	811
chemotherapy project, PHS.....	174
drugs for treating; pharmaceutical firm contracted to develop, test, and manufacture	468
experimental, produced in rats by chromium compounds	910
human uterine, uniform record and reporting system for field research units.....	*885
lung, association with air pollutants, laboratory evidence.....	413
morbidity in United States (summary, Public Health Monogr. No. 56).....	91
wax used for milk and food containers analyzed for possible hazard; statement by Arthur S. Flemming.....	831
CARDIOVASCULAR DISEASE	
<i>see also</i> Heart Disease	
cardiovascular-renal, underlying cause for two-thirds of deaths in 1954, Hartford County, Conn.....	243
nursing services for patients at home.....	*21
patients, diet care and services for.....	*1086
CHILD HEALTH AND WELFARE	
<i>see also</i> Family; Infants; School Health Services	
accidents in childhood, characteristics.....	259
accidents in childhood, mortality and morbidity, prevention, Western Hemisphere..	*523
arrangements for children of working mothers	404
behavioral disturbances, detection in preschool children.....	246
blindness in children, causes studied in California	*444
Child Health Day observance date changed..	1040
crippled children's program, 1937-57 data..	984
educational services for children with rheumatic fever or heart disease.....	*1041
fatherless family, effects on mother and children	779
handicapped children, educational services, 98 cities	256
health program for children in day care centers, New York City.....	*567
hearing loss, results of APHA survey.....	340
heart disease screening, Chicago elementary schools.....	563
juvenile delinquency, prevention.....	*546
mass visual screening of preschool children, New York City.....	258
maternal and child health services, planning	248

CHILD HEALTH AND WELFARE—Continued

orthopedic clinics surveyed, New York City	248
otitis media in Indian children, sulfamethoxyypyridazine prophylaxis for.....	247
pediatric evaluations of Indian children, Wind River Reservation, Wyo.....	249
physical fitness not sole objective.....	250
reading disability of nonvisual origin in intelligent children.....	257
settlement house psychiatric clinic for children and their parents, New York City	*957
CHOLESTEROL	
in American Indians, comparison with white population group.....	*392
CHRONIC DISEASES	
<i>see also</i> name of disease	
programs use techniques of other services..	241
CIVIL DEFENSE	
emergency planning needs.....	227
preparedness and survival.....	*1
CLEFT PALATE	
cinelfluorography therapy.....	253
untreated compared with treated, Puerto Rico.....	251
COMMUNICABLE DISEASES	
<i>see also</i> name of disease	
foodborne and waterborne outbreaks, summary, 1958.....	*715
reporting, obtaining private physicians' cooperation.....	*360
reporting principles.....	362
CONFERENCE REPORTS	
American Public Health Association, 86th, 1958.....	213
American Roentgen Ray Society, 1958.....	36
Conference on Aging, University of Michigan, 12th annual; designs for retirement.....	1075
First International Medical Conference on Mental Retardation, 1959.....	1124
Industrial Health Conference, 1959.....	905
International Academy of Pathology and American Association of Pathologists and Bacteriologists, 1959; advances in pathology.....	810
International Congress of Radiation Research, 1958.....	39
Massachusetts Public Health Association, 1959; social pathology.....	1025
Mental Hospital Statisticians, 9th annual, 1959.....	878
National Citizens Committee for World Health Organization, 6th, 1958.....	355
National Conference on Air Pollution, 1st, 1958.....	409
National Conference on Rural Health, 14th, 1959.....	653

CONFERENCE REPORTS—Continued

National Health Forum of the National Health Council, 1959; mental health in industry.....	702
National Tuberculosis Association, American Trudeau Society, National Conference of Tuberculosis Workers, 1959.....	1001
Pennsylvania's 7th annual health conference, 1958; control of economic poisons....	449
Second National Conference on World Health, 1959; world health for world peace.....	969
CORONARY DISEASE <i>see</i> Heart Disease	
CYSTIC FIBROSIS OF PANCREAS	
national hospital survey of.....	*764
DAY CARE	
centers, health program for children, New York City.....	*567
DEATH CERTIFICATES	
source of epidemiological data on accidents..	259
DEATHS	
Collins, Selwyn D.....	324
DENTAL CARE PLANS <i>see</i> Health Insurance	
DENTAL CARIES	
DMF rates among Southeast Asians, epidemiological study.....	252
effect of natural fluorides on incidence in three Georgia cities.....	*127
prevention by fluoridation, 5-year statistics, Maryland children.....	*289
DENTAL SERVICES	
attitude of social classes toward.....	251
grants-in-aid welfare services for children..	252
DIABETES	
casefinding, Virgin Islands.....	924
DIARRHEA <i>see</i> Enteric Infections	
DISEASE OUTBREAKS	
<i>see also</i> under name of disease	
nonbacterial gastroenteritis, Boy Scout ranch, 1957.....	*1015
summary of waterborne and foodborne outbreaks, 1958.....	*715
DOG BITES	
characteristics of biting dogs.....	*898
human and environmental factors.....	*891
DRUGS	
<i>see also</i> Antibiotics; Narcotics	
diethylstilbestrol, effects of absorption on chemical workers.....	912
effect on newborn mammals.....	720
nasal inhalers containing basic amphetamine, sale restricted.....	288
zoxazolamine and sulfipyrazone, under trial for treatment of gout.....	315
DYER LECTURE	
inapparent infections, relation to microbial persistence.....	*485

EAR		
otitis media in Indian children, sulfamethoxypyridazine prophylaxis	247	
ECONOMICS, HEALTH		
<i>see also</i> Health Insurance		
costs of disease and injury, review of concepts	*795	
fees for clinic psychiatric services based on patient's income tax payments	*296	
salaries of local public health workers, 1958	667	
State and local government expenditures for health and hospitals	*833	
variation in use of general hospitals with methods of payment and insurance coverage	*316	
EDUCATION, PROFESSIONAL <i>see</i> Training; Grants and Fellowships		
EDUCATION, PUBLIC		
knowledge of human reproduction surveyed, quackery and lay press reporting of medical news	*635	
school health education, preparing teachers for	258	
ENCEPHALITIS		
arthropod-borne, incidence, United States, 1957	*461	
infectious, epidemiological aspects, Colorado	*647	
mosquito-borne, status in United States	*84	
St. Louis, 1956 outbreak in Grand Junction, Colo.	*372	
ENCEPHALOMYELITIS		
in horses, 1909; epidemiological note	830	
ENTERIC INFECTIONS		
<i>see also</i> Gastroenteritis		
acute diarrhea, incidence in Alaska	*49	
in Alaskan Eskimos, seasonal study of	*55	
EPIDEMIOLOGICAL NOTES		
<i>Clostridium perfringens</i> found in turkey dressing	710	
encephalomyelitis in horses	830	
hazards of filmy plastic bags	606	
meningococcal infections	534	
rabies	391	
salmonellosis	940	
septicemia	354	
smallpox	131	
EPIDEMIOLOGY		
<i>see also</i> under specific disease		
applications of human genetics in	*1098	
family control method of studying disease	244	
EXHIBITS		
migrant worker, PHS	714	
tuberculosis casefinding, dual readings of chest X-rays	964	
FAMILY		
American, social and economic trends, 1940-57	*189	
FAMILY—Continued		
family courts, model legislation	547	
fatherless, effects on mother and children	779	
health clinic, unified obstetrics and pediatrics in	247	
FEDERAL GOVERNMENT		
budget process	*783	
role in health activities	*661	
FETUS		
death of, Onondaga County, N.Y., 1951-52, study of hospital records	*1117	
FILMS		
descriptive announcements	103, 859	
list	385, 699, 1033	
FISH		
preservation, use of chlortetracycline authorized	499	
salt-preserved codfish, poisoning outbreaks, Puerto Rico	*265	
stingray injuries in humans	*855	
FLUORIDES AND FLUORIDATION		
fluoride concentration in tooth enamel, relation to DMF rates among Southeast Asians	252	
fluoride emission causing air pollution, liability for; legal note	104	
natural fluorides, effect on caries incidence in three Georgia cities	*127	
naturally fluoridated water, summary of PHS report data	884	
opponents hinder progress; statement by Arthur S. Flemming	511	
prevention of dental caries, 5-year statistics, Maryland children	*289	
proposed alternatives to fluoridation of water supplies (excerpts from published statements)	517	
status of fluoridation in community water supplies	427	
status of fluoridation in the United States	513	
FOOD		
<i>see also</i> Milk		
additives listed as safe by Food and Drug Administration, announcement	43	
Food—Yearbook of Agriculture, 1959, announced	1047	
irradiation hindered by problems of taste, odor, and cost	253	
sanitation activities, evaluation principles applied to	236	
wax containers, results of laboratory analyses for possible cancer-producing agents; statement by Arthur S. Flemming	831	
FOOD POISONING		
<i>Clostridium perfringens</i> found in turkey dressing; epidemiological note	710	
foodborne and waterborne disease outbreaks, summary, 1958	*715	
from salt-preserved codfish, Puerto Rico	*265	
outbreak caused by <i>Salmonella typhimurium</i> from turkeys	*746	

FOXES		
ecology of, relation to rabies prevalence....	*115	
FRONTISPIECES		
January—technicians measure radioactivity of milk, air, and water samples, RATSEC		
February—technician macerates trichina larvae		
March—mouth exhibit, Hinsdale Health Museum, Ill.		
April—Boy Scouts fill jerry cans, 1957 National Jamboree		
May—scenic area of the Nation (anti-litter drive)		
June—Dalecarlia Reservoir, Washington, D.C.		
July—day care center, New York City		
August—the <i>NS Savannah</i>		
September—Asian child bearing pockmarks of smallpox		
October—statue, Dr. Florence Rena Sabin		
November—algae in water supplies		
December—Charles Darwin		
GASTROENTERITIS		
<i>see also</i> Enteric Infections		
nonbacterial, outbreak at Boy Scout ranch, 1957.....	*1015	
outbreak caused by <i>Salmonella typhimurium</i> from turkeys.....	*746	
GENETICS		
human applications in epidemiology and preventive medicine.....	*1098	
GOUT		
treatment, zoxazolamine and sulfinpyrazone under trial.....	315	
GRANTS AND FELLOWSHIPS		
extramural research in nursing.....	1058	
health research facilities, building and equipment grants, PHS.....	936	
nursing research grant program expanded.....	614	
physical and social science fellowships, National Science Foundation.....	956	
professional nurse traineeship program, PHS, 5-year extension.....	1028	
professional public health workers, PHS....	92	
research, training, and construction grants awarded in fiscal year 1958, NIH.....	59	
training grants, schools of public health, PIIS	854	
GROUP MEDICAL PRACTICE		
historical and sociological framework.....	*199	
HANDICAPPED		
<i>see also</i> Rehabilitation		
children, data on 1937-57 program.....	984	
children, education service for, 98 cities....	256	
children with rheumatic fever or heart disease, educational services for.....	*1041	
HANDICAPPED—Continued		
homebound, meals-on-wheels projects for...	923	
HEALTH DEPARTMENTS		
calendar devised to record activities, Calhoun County, Mich.....	*700	
health program for children in day care centers, New York City.....	*567	
local, analysis of growth indexes.....	*13	
local, responsibilities for air pollution control; statement by Conference of Municipal Public Health Engineers.....	181	
mental health activities, Philadelphia.....	*455	
radiation control activities, Cincinnati....	*439	
State and local, trends in occupational health programs	*823	
HEALTH EDUCATION <i>see</i> Education, Public		
HEALTH INSURANCE		
and hospital use related to marital status..	*721	
dual choice programs, California.....	222	
extent of coverage, Health Insurance Council surveys.....	235	
dental care, District of Columbia Dental Society service corporation.....	222	
dental care, objectives.....	223	
dental care, public demand.....	223	
hospitalization, national program in Canada	*1049	
hospital prepayment coverage; demographic, social, and economic factors, United States, 1956	*573	
migrant agricultural workers.....	222	
nursing home care.....	220	
prescription medicine, prepayment plan, Ontario	221	
psychiatric care.....	*687	
psychiatric care, St. Louis Labor Health Institute plan.....	221	
social service, Health Insurance Plan of Greater New York.....	223	
State employees, New York.....	*341	
visiting nurse service, New York City and Syracuse	220	
HEALTH MUSEUMS		
Hinsdale Health Museum, Ill.; pictorial....	261	
HEALTH SERVICES		
administrative organization, four patterns..	237	
and programs, recommendations for strengthening, Citizens Medical Committee on Health, Florida.....	*711	
Federal role in health activities.....	*661	
for migrant farmworkers and their families, financing	*684	
for State employees, Georgia.....	231	
progressive patient care, new concepts....	*405	
traditional, reappraisal recommended....	224	
HEARING		
loss in children, results of APHA survey..	340	
HEART DISEASE		
<i>see also</i> Cardiovascular Disease		
causes of sudden death.....	811	

HEART DISEASE—Continued		
coronary, cigarette smoking related to incidence	241	
coronary, factors related to incidence.....	242	
educational services for children with rheumatic fever or heart disease.....	*1041	
mass screening program, Chicago elementary schools.....	563	
HEAT		
relief measures for factory workers.....	912	
HEMORRHAGIC FEVER, EPIDEMIC		
in Argentina, characteristics.....	*1011	
HOME CARE		
chronic disease patients, program in Kentucky	1115	
jobs for chronically ill, homebound patients, Montefiore Hospital, New York City.....	*813	
meals-on-wheels projects for aged and handicapped	923	
nutrition services in organized program for chronically ill.....	*873	
HOMEMAKERS		
characteristics of families served by.....	239	
national conference on homemaker services announced	80	
National Conference on Homemaker Services, 1959, Chicago.....	386	
service, New Jersey.....	*383	
HOOKWORM INFECTIONS		
larva migrans, visceral and cutaneous; review of research.....	*328	
HOSPITAL INSURANCE <i>see</i> Health Insurance		
HOSPITALS		
beds in the United States, 1959.....	*1089	
general, variation in use with methods of payment and insurance coverage.....	*316	
new Public Health Service Hospital for Navajo Reservation Indians.....	692	
normal bed capacity and departmental space, proposed standard method for measuring	*674	
progressive patient care, new concepts.....	*405	
regionalized services, review of historical background and current status.....	*916	
use in relation to health insurance and marital status.....	*721	
use of, 1921-24 and 1955-57 surveys, Hagerstown, Md.....	*861	
voluntary consultation on dietary practices, grant project in Connecticut.....	*607	
HOSPITALS, MENTAL		
clinical neuropharmacology research center established at St. Elizabeths Hospital.....	54	
progress in reporting statistics; conference report	878	
State, first admissions, statistical study (summary, Public Health Monogr. No. 58)	1024	
IMMUNIZATION <i>see</i> Vaccines and Vaccinations		
INDEX MEDICUS		
new index of National Library of Medicine and American Medical Association.....	1070	
INDIANS, AMERICAN		
<i>see also</i> Alaska		
and Alaska natives, health status; statement by Arthur S. Flemming.....	521	
new Public Health Service hospital, New Mexico	692	
nursing services, Montana.....	325	
otitis media in children, sulfamethoxypyridazine prophylaxis	247	
pediatric evaluations, Wind River Reservation, Wyo.....	249	
serum cholesterol in, comparison with white population group.....	*392	
INFANTS		
premature, effect of diaper-roll support to lower back.....	438	
INFECTIONS		
<i>see also</i> name of infection		
inapparent, relation to microbial persistence..	*485	
INFLUENZA		
airborne transmission blocked by ultraviolet radiation.....	1002	
Asian, in high school students, etiological study, Allegheny County, Pa.....	*925	
Asian, outbreak on two Alaskan islands....	*737	
INSECTICIDES		
residual fumigants (malathion and DDVP), effectiveness against mosquitoes and houseflies, potential in malaria eradication.....	*379	
INSECTS		
vector control at National Boy Scout Jamborees.....	*349	
INTERNATIONAL HEALTH		
<i>see also</i> World Health Organization		
humanistic relevance of public health.....	972	
International Health Year planned.....	430	
international mail pouch.....	44, 132, 212, 302, 428, 500, 646, 668, 812, 860, 982, 1048	
malaria eradication, multinational effort urged.....	358	
prospectives in.....	357	
smallpox eradication by mass vaccination, Bolivia.....	*771	
water supply problems, British Caribbean territories.....	*428	
world health for world peace; conference report.....	969	
IRRIGATION		
use in industrial waste disposal.....	*133	
JUVENILE DELINQUENCY		
Federal interest in.....	*546	
LABORATORY ANIMALS		
spontaneous diseases, control.....	*165	
LABORATORY EQUIPMENT		
aerosol samplers (summary, Public Health Monogr. No. 60).....	1123	

LABORATORY EQUIPMENT—Continued		
animal inhalation exposure chambers (summary, Public Health Monogr. No. 57)-----	939	
germ-free cabinet for animals-----	180	
LABORATORY TESTS AND TECHNIQUES		
rapid plasma reagin test for syphilis, evaluation in field operation-----	*473	
rapid plasma reagin test for syphilis using unheated serum; preliminary report-----	*965	
rodenticides, anticoagulant; rapid evaluation procedures-----	*105	
RPCF test reactivity in serum of leprosy patients compared with other syphilis tests-----	*45	
transport medium for rectal swab specimens-----	*431	
LAWS AND REGULATIONS		
air pollution control, Philadelphia-----	426	
air pollution control; State, local, and Federal-----	422	
narcotic laws, national and international; evaluation and suggested revisions-----	*755	
requiring hospitalization of recalcitrant tuberculosis patients, North Carolina-----	401	
Standard Family Court Act, proposed model for States-----	547	
LEGAL NOTES		
fluoride emission causing air pollution, liability for-----	104	
health inspections-----	840	
municipal control of air pollution-----	749	
water pollution control-----	359	
LEPROSY		
human, transplant into animals-----	810	
LEPTOSPIROSIS		
control, man and animals-----	*149	
epidemiology in the United States-----	*141	
<i>L. australis</i> A, serologic evidence in Georgia school boy-----	*271	
LEUKEMIA		
distribution compared with frequency of X-ray diagnosis and therapy-----	*29	
LUNGS		
<i>see also</i> Cancer		
effect of atmospheric irritants on-----	410, 412	
MALARIA		
eradication, multinational effort urged-----	358	
eradication, potential of residual fumigants (malathion and DDVP)-----	*379	
MATERNAL HEALTH		
<i>see also</i> Pregnancy		
maternal and child health services, planning	248	
planned parenthood service, public health clinics, North Carolina-----	245	
MEDICAL CARE PLANS <i>see</i> Health Insurance		
MEDICAL SERVICES		
for the indigent, study project-----	782	
managing physician service, effect on hospital admission rate-----	238	
MEDICAL SERVICES—Continued		
personal consumption expenditures for, revised estimates, 1948-57-----	*210	
provision of, historical and sociological framework of group practice-----	*199	
MEDICINE, PREVENTIVE		
applications of human genetics in-----	*1098	
accented in Ohio's mental health program	218	
history, in World War II-----	*170	
MENINGOCOCCUS		
infections, mortality and fatality rates; epidemiological note-----	534	
MENTAL DEFICIENCY		
retardation, first international conference on-----	1124	
retarded adults, occupational training program, Hartford, Conn-----	233	
MENTAL HEALTH		
care of mental patients; statement by Arthur S. Flemming-----	656	
clinics, characteristics of patients and services, United States, 1955-56-----	*943	
community responsibility-----	*303	
community, settlement house psychiatric clinic services, New York City-----	*957	
mental patients served by Philadelphia Health Department, characteristics of-----	*455	
of the worker; conference report-----	702	
program for the aged, Philadelphia-----	*849	
psychiatric care, health insurance for-----	*687	
psychiatric clinics for children, attrition rates, Philadelphia-----	*309	
senility prevention program, Philadelphia	750	
State agency program planning for community services-----	*478	
State program reorganized, Ohio-----	218	
MICROBIOLOGY		
relation of inapparent infections to microbial persistence-----	*485	
transport medium for rectal swab specimens	*431	
MIGRANTS		
Federal and State responsibilities-----	686	
financing health services for-----	*684	
health insurance for-----	222	
labor crisis caused by crop freeze, Immokalee, Fla., 1957-----	*77	
PHS exhibit-----	714	
MILK		
chlorinated organic pesticide residues in, 1958 survey-----	*1109	
protection from pesticide and penicillin residues-----	550	
radioactive contamination after uranium fire in reactor, Windscale, England-----	*42	
radioactivity levels, February 1959-----	634	
radioactivity levels, July 1959-----	1000	
sanitation honor roll, 1957-58-----	277	
sanitation honor roll, 1957-59-----	844	

MILK—Continued

wax containers, results of laboratory analyses for possible cancer-producing agents; statement by Arthur S. Fleming -----

831

MONOGRAPHS

No. 56. Morbidity from cancer in the United States *by* Harold F. Dorn and Sidney J. Cutler (PHS Pub. No. 590). Summary article -----

91

No. 57. Exposure chambers for research in animal inhalation *by* David A. Fraser, Ronald E. Bales, Morton Lippmann, and Herbert E. Stokinger (PHS Pub. No. 662). Summary article -----

939

No. 58. Patterns of retention, release, and death of first admissions to State mental hospitals *by* E. S. Pollack, P. H. Person, Jr., M. Kramer, and H. Goldstein (PHS Pub. No. 672). Summary article -----

1024

No. 59. Public health nursing service to patients *by* Marion Ferguson (PHS Pub. No. 685). Summary article -----

1009

No. 60. Sampling microbiological aerosols *by* Harold W. Wolf, Peter Skaliy, Lawrence B. Hall, Marvin M. Harris, Herbert M. Decker, Lee M. Buchanan, and Charles M. Dahlgren (PHS Pub. No. 686). Summary article -----

1123

MORTALITY *see* Vital Statistics; under specific disease

NARCOTICS

control, evaluation of and suggested revisions -----

*755

NATIONAL CITIZENS COMMITTEE *see* World Health Organization

NATIONAL HEALTH SURVEY, U.S.

accidental injuries, methods of collecting data -----

*195

attitudes of aged toward free health examinations -----

234

disability days in United States, 1957-58 -----

915

illness, injuries, and physician visits in United States, first annual report announced -----

41

physical and mental impairments, July 1957-June 1958 -----

673

NOISE CONTROL

engineering efforts -----

908

legal aspects -----

909

medical critique -----

909

NUCLEAR SHIP

Savannah, protection from radioactive contamination on -----

*669

NURSES

public health nurse, coordinator in a geriatric clinic -----

*601

NURSING HOMES

administrators, training for -----

*995

aides, Red Cross training program for -----

987

NURSING HOMES—Continued

beds in the United States, 1959 -----

*1089

personnel, general suggestions for training -----

*986

personnel, training in rehabilitation techniques -----

*989

staffs trained in rehabilitation skills -----

238

NURSING SERVICES

changes in tuberculosis treatment and

casefinding, effect on -----

240

for cardiovascular disease patients at home -----

*21

for Montana Indians -----

325

in communicable disease programs -----

240

in venereal disease control -----

239

to patients within diagnostic categories (summary, Public Health Monogr. No. 59) -----

1009

NUTRITION

diet record technique for calculating daily

individual dietary intake -----

*298

diet therapy for cardiovascular disease

patients -----

*1086

recommended dietary allowances, use in

diet appraisal -----

254

recommended dietary allowances, use in

planning diets for soldiers -----

255

services for chronically ill patients, in or-

ganized home care program -----

*873

underfed nations, agricultural programs

for -----

254

World Health Organization's efforts in

combating malnutrition -----

355

OCCUPATIONAL HEALTH

alcoholism in industry; work experiences,

prevalence, cost -----

*153

drycleaning plants, study of employees' ex-

posure to solvent vapors -----

882

economic poisons control; symposium -----

449

health insurance program for State em-

ployees, New York -----

*341

industrial health today; conference report

905

local health department activities -----

230

mental health of the worker; conference re-

port -----

702

methylchloride intoxication -----

683

programs, trends in State and local units

*823

Public Health Service activities -----

*693

radar and rocket fuel, biological or toxic

effects -----

215

services to farmers by mail order -----

*1037

PAINT

red lead, solubility in water, laboratory

study -----

*501

PAN AMERICAN HEALTH ORGANIZATION

accomplishments and objectives -----

276

long-range program -----

274

PAN AMERICAN SANITARY BUREAU

Abraham Horwitz inducted as new direc-

tor; selections from remarks at ceremony

274

PATHOLOGY			
advances in; conference report.....	810		
social, implications in epidemiology.....	1025		
PERIODONTAL DISEASE			
associated with oral debris.....	251		
PERSONNEL, PROFESSIONAL			
new method for evaluating and making more effective use of.....	225		
physicians, dentists, nurses; trends in education, location, and specialization.....	1085		
PESTICIDES			
<i>see also</i> Rodenticides; Insecticides			
Aramite, zero tolerance ordered by Food and Drug Administration.....	97		
chlorinated organic, residues in milk, 1958 survey	*1109		
PLASTICS			
hazards of filmy bags; epidemiological note.....	606		
use in health techniques.....	216		
POISONS AND POISONING			
<i>see also</i> Food Poisoning			
economic poisons control; symposium.....	449		
stingray venom, effect on humans.....	*855		
POLIOMYELITIS			
antibody, incidence resulting from natural infection, Hamilton, Mont.....	*175		
immunization programs, availability of promotional literature announced.....	198		
United States, 1957, surveillance report.....	*535		
vaccination, factors influencing acceptance or rejection.....	*98		
vaccination, progress report.....	*95		
vaccine, live attenuated; statement by Leroy E. Burney.....	382, 983		
virus detection in vaccine lots used in Idaho, 1955.....	*60		
PREGNANCY			
congenital anomalies, new concepts in study of	245		
reproductive failure, epidemiological study planned	244		
PSITTACOSIS			
occurrence in laboratory workers.....	1007		
PUBLICATIONS			
descriptive announcements.....	5, 93, 186, 281, 348, 469, 565, 659, 752, 941, 1035, 1125		
list.....	270, 580, 658, 699, 938, 1033		
Q FEVER			
occurrence in laboratory workers.....	1007		
QUACKERY			
and lay press reporting of medical news....	*635		
QUARANTINE			
forcible detention of recalcitrant patients with active tuberculosis, New York City..	*399		
RABIES			
control, ecology of foxes in relation to.....	*115		
RABIES—Continued			
incidence in wild animals; epidemiological note.....	391		
RADIATION			
accidents, planning for handling.....	905		
applications in sanitary engineering.....	*119		
control activities, Cincinnati Health Department.....	*439		
control of radioactive wastes, first Federal enforcement action; statement by Arthur S. Flemming.....	883		
dose received by dentists and dental technicians, 9-year survey, New England....	907		
Federal Radiation Council; statement by Arthur S. Flemming.....	1107		
frequency of exposure to diagnostic or therapeutic X-ray or radium studied in sample population.....	*29		
irradiation of food; taste, odor, and cost problems	253		
medical, reduction of hazards through education.....	36		
milk contamination after uranium fire in reactor, Windscale, England.....	*42		
overexposure, occupational incidents.....	906		
protection from radioactive contamination on <i>NS Savannah</i>	*669		
protective clothing at atomic energy plants..	906		
public exposure to; statement by Arthur S. Flemming.....	441		
radioactive wastes in water, biological effects	*1059		
radioactive wastes disposition, permits for, Pennsylvania	832		
radioactivity in milk samples, February 1959.....	634		
radioactivity levels in water and milk samples.....	1000		
research; conference report.....	39		
study outlined at University of Chicago School of Medicine.....	347		
RECORDS			
uniform record and reporting system for field cancer research units.....	*885		
RECRUITMENT			
medical students, attitudes toward public health careers.....	227		
student interest in health careers promoted, Connecticut	225		
REHABILITATION			
<i>see also</i> Handicapped			
jobs for chronically ill, homebound patients, Montefiore Hospital, New York City.....	*813		
occupational training for mentally retarded adults, Hartford, Conn.....	233		
training in, for nursing home personnel..	238, *989		
RESEARCH			
by local health departments, Public Health Service actions to promote.....	226		

RESEARCH—Continued		
goals of World Health Organization's program	356	
in Hagerstown, Md., review	226	
RETIREMENT		
financing, health, housing, preparation, and uses; conference report	1075	
RHEUMATIC FEVER		
educational services for children with rheumatic fever or heart disease	*1041	
nationwide efforts in research, service, prevention, control	*870	
ROCKY MOUNTAIN SPOTTED FEVER		
maintenance in nature, rapid tick passage, and ectoparasites as source of infection	*595	
RODENTICIDES		
anticoagulant, laboratory evaluation of five	*105	
RURAL HEALTH		
National Conference on, 14th, 1959	653	
SABIN, FLORENCE RENA		
Colorado's representative in Statuary Hall, U.S. Capitol	903	
SALMONELLOSIS		
epidemiological note	940	
outbreak caused by <i>Salmonella typhimurium</i> in turkeys	*746	
SANITARIANS		
number of and backgrounds, Pennsylvania	*559	
SANITARY ENGINEERING		
applications of radiation in classic problems	*119	
degrees awarded, 1957	*81	
SANITATION		
<i>see also</i> specific type of sanitation		
evaluation of programs and procedures	229	
health inspections; legal note	840	
in food-handling establishments, voluntary self-inspection program	230	
litter prevention programs in four cities	*387	
practices at National Boy Scout Jamborees	*349	
SCHOOL HEALTH SERVICES		
<i>see also</i> Child Health and Welfare		
study of program, Brookline, Mass	257	
teaching partially seeing children in public schools	258	
visual screening in elementary school, Orinda, Calif	257	
SEPTICEMIA		
mortality, 1958	1114	
mortality, 1949-57; epidemiological note	354	
SKIN DISEASES		
larva migrans, review of research	*328	
SMALLPOX		
epidemiological note	131	
eradication by mass vaccination, Bolivia	*771	
SOCIAL SECURITY		
amendments of 1958, highlights	*67	
Bureau of Old-Age and Survivors Insurance seeks eligibles	66	
OASI disability program	232	
SPACE FLIGHT		
physiological problems	216	
STAPHYLOCOCCUS		
enterotoxins produced in salt-preserved codfish implicated in poisoning outbreaks, Puerto Rico	*265	
STATISTICS		
<i>see also</i> Vital Statistics		
mental hospital, progress in reporting; conference report	878	
tuberculosis control programs (service statistics series)	*364	
use in solving administrative problems	235	
SURVEYS		
<i>see also</i> National Health Survey, U.S.		
hospital interview data compared with hospital records	233	
validity of information provided by household respondents	234	
SYPHILIS		
rapid plasma reagin test, evaluation in field operation	*473	
rapid plasma reagin test using unheated serum, preliminary report	*965	
RPCF test reactivity in serum of leprosy patients compared with other syphilis tests	*45	
TOBACCO SMOKING		
statistical relation to mortality from cancer and other diseases	*581	
TRAINEESHIPS <i>see</i> Grants and Fellowships		
TRAINING		
nursing home administrators, St. Louis County, Mo.	*995	
nursing home personnel, general suggestions	*986	
nursing home personnel, rehabilitation techniques, Illinois	*989	
TRICHINOSIS		
control in United States, review of developments since 1954	*150	
TUBERCULOSIS		
airborne transmission, laboratory study	1001	
and prevalence of tuberculin sensitivity among natives of lower Yukon	*621	
BCG vaccination, limitations	194	
BCG vaccination, 20-year followup study	1005	
care of recalcitrant patients under legal detention	1003	
casefinding, dual readings of chest X-rays; PHS exhibit	964	
casefinding through contact investigation	1004	
diagnosis, new techniques	1006	
forced hospitalization of recalcitrant patients, North Carolina regulations	401	
forcible detention of recalcitrant patients, New York City	*399	
in Labrador Eskimos and Indians	1003	
morbidity and mortality, racial and environmental factors	1002	

TUBERCULOSIS—Continued	
patients, survival patterns in Hawaii.....	1108
reinfection, causative factors.....	1005
service statistics for control programs (service statistics series).....	*364
status of; conference report.....	1001
URBAN EXPANSION	
effects on housing and community development	214
U.S.S.R.	
American nurse in Moscow.....	1048
excerpts from translations in <i>Scientific Information Report</i> , July 1958–June 1959.....	639
mortality and fertility data, analyzed and compared with U.S. data.....	*975
public health mission to Soviet Union (excerpts from PHS Pub. No. 649).....	644
Russian Scientific Translation Program, PHS, activities.....	643
scientific exchange.....	*338
VACCINES AND VACCINATIONS	
BCG vaccination, limitations.....	194
mass vaccination against smallpox, Bolivia	*771
multiple antigen, booster dose proves effective	250
poliomyelitis vaccination, factors influencing acceptance or rejection.....	*98
poliomyelitis vaccination, progress report.....	*95
poliomyelitis vaccine, live attenuated; statement by Leroy E. Burney.....	382, 983
poliovirus detection in lots used in Idaho, 1955	*60
VENEREAL DISEASES	
<i>see also</i> name of disease	
control, role of public health nurse.....	239
Symposium on Recent Advances in Study of, 11th annual, 1960, announcement.....	1023
VIRUSES	
human, 70 newly recognized.....	*6
VITAL STATISTICS	
birth rates, geographic and seasonal variations	*285
death rates, new series of reports released by National Office of Vital Statistics.....	522
fetal and neonatal deaths, Onondaga County, N.Y., 1951–52, study of hospital records	*1117
importance in today's society.....	*1029

VITAL STATISTICS—Continued	
marriages and divorces, trends in American families, 1940–57.....	*189
mortality among Jews in St. Louis, Mo.....	243
mortality and fertility data of U.S.S.R., analysis and comparison with U.S. data.....	*975
pregnancy and neonatal facts, ways to improve reporting.....	236
vital records science in college curriculums	235
WASTES	
industrial, biological effects on water supply	*1059
industrial, disposal by irrigation.....	*133
nuclear, permits for disposition, Pennsylvania.....	832
purification, selection and adaptation of micro-organisms.....	215
radioactive, first Federal enforcement action to control; statement by Arthur S. Fleming.....	883
treatment; research, observations, and speculations on.....	*1071
WATER POLLUTION	
biological effects of industrial wastes on... control statute upheld, Utica, N.Y.; legal note.....	*1059 359
WATER SUPPLY	
Drinking Water Standards, PHS, to be revised.....	520
naturally fluoridated, summary of PHS report data.....	884
problems of conservation and purification, British Caribbean territories.....	*428
radioactivity levels in Nation's major water courses, 1959.....	1000
WORLD HEALTH ORGANIZATION	
concept of health.....	275
efforts in combating malnutrition.....	355
goals of research program.....	356
National Citizens Committee; conference report, 1958.....	355
National Citizens Committee sponsors Second National Conference on World Health, announcement.....	332
Regional Office for the Americas, Abraham Horwitz inducted as new director.....	274
WORLD WAR II	
preventive medicine in, history.....	*170

Author Index

Aaron, Azile H.	252	Burney, Leroy E.	*1, *95, *382, *983	Diaz-Carlos, Carlos	275
Abbe, Leslie Morgan	*316, *573, *1089	Burns, R. M.	1051	Dinitz, Simon	*285
Abraham, Sidney	*21, *392	Bushel, Arthur	223	Dixon, James P.	409
Abrahams, Albert P.	906	Butler, H. L.	907	Domke, Herbert R.	*995
Allaway, Norman C.	*1117	Butrico, Frank A.	*81	Donnelly, J. F.	246
Allen, Clarissa	*55	Cagle, Fred R.	*338	Donnelly, Thomas G.	227
Allen, Clayton H.	909	Calver, Homer N.	*387	Dorn, Harold F.	**91, *581
Alonso, Darwin	*265	Cameron, Charles M., Jr.	259	Dwork, Ralph E.	194
Alt, Edith S.	223, *687	Cameron, Dale C.	*296	Eddy, Nathan B.	*775
Ammons, John	*271	Cameron, W. Ross	226	Eddy, Preston P.	*669
Arbona, Guillermo	276	Cannefax, George R.	*45	Edelman, Sidney	843
Armijo, Rolando	*265	Carey, Geoffrey C.	414	Eisenberg, Henry	226, 243
Ashley, E. Everett 3d	1075	Carriger, Barbara K.	*98	Eisenhower, Dwight D.	358
Aune, Hazel V.	*1029	Carroll, Benjamin E.	*885	Eklund, Carl M.	*60
Ayers, Polly	251	Chambers, Leslie A.	416	Ensign, Paul R.	247
Babbott, Frank L., Jr.	*49	Chaplin, Hugh	*567	Enterline, Philip E.	234, 242
Babbott, Joan	247	Chapman, A (Ibert) L.	*163, *333	Erickson, Frederick K.	*81
Back, Kurt W.	227	Charter, W. V.	235	Fairhall, L. T.	*501
Bahn, Anita K.	*943	Chin, Tom D. Y.	*1015	Fawcett, Robert M.	242
Bahn, Ralph	*783	Chrystie, Mabel F.	220	Fay, Richard W.	*379
Bales, Ronald E.	**939	Church, Gertrude M.	249	Fehn, Clyde F.	*349
Ballou, Harold	972	Clack, Frank B.	*891	Fellows, Victor, Jr.	257
Bancroft, Huldah	*45	Clark, E. Alice	239	Ferguson, Marion	**1009
Barrett, C. Dale, Jr.	250	Clarke, Margaret	*813	Flemming, Arthur S.	441, 511, 521, 656, 831, 883, 1107
Barrow, J. Gordon	*298	Clayton, George D.	914	Foley, John F.	*1015
Bassen, Jonas L.	*1109	Clifcorn, L. E.	253	Follmann, J. F., Jr.	223
Bauer, W. W.	250	Clifford, Paul A.	*1109	Forester, Helen E.	*535
Beadle, Leslie D.	*84	Coker, Robert E., Jr.	227	Foster, John T.	*607
Beaver, Margaret E. N.	*372	Collings, Francis d'A.	*795, *1049	Fournelle, H. J.	*55
Beaver, Paul C.	*328	Comstock, George W.	*621	Fox, Meyer S.	909
Beebe, Steven O.	222	Consolazio, C. Frank	255	Fraenkel, Marta	260
Beecroft, Ruth K.	*1117	Cook, Warren A.	914	Francisco, L. J.	216
Belloc, Nedra B.	*444	Cooper, H. K.	253	Fraser, D(avid) A.	*501, **939
Berger, Bernard B.	*1071	Copps, Stephen G.	*647	Frederick, W. G.	914
Berry, Clyde M.	*1037	Cowing, Russell F.	908	Frederiksen, Harald	*771
Bettman, Jerome W.	257	Crane, Marian M.	*764	French, Carolyn	*737
Block, Marvin A.	217	Cunningham, Florence	258	Friedemann, Theodore E.	255
Bloomfield, Bernard D.	914	Cutler, Sidney J.	**91	Frigerio, M.	*1011
Blum, Henrik L.	257	Dahlgren, Charles M.	**1123	Fulton, John T.	251
Bodet, Jaime Torres	275	Dashiell, Alice T.	*849	Gaines, Thomas B.	*105
Borsky, Paul N.	234	Dauer, Carl C.	131, 354, 362, 391, 534, *715, 830, 940	Galton, M(ildred) M.	*141, *271
Boxaca, M.	*1011	Davids, Donald J.	*715	Garson, Warfield	*965
Bradley, William R.	420	Davis, David E.	*115	Garzon, F.	*1011
Brewster, Agnes W.	220, *721	Dawber, Thomas R.	242	Gerloff, Robert K.	*60, *175
Brobst, Duane	*891	Decker, Herbert M.	**1123	Getting, V. A.	229
Brody, Jacob A.	*461, *535	DeGuerrero, L. B.	*1011	Gezon, Horace M.	*925
Brown, Morton L.	*764	De la Barrera, J. M.	*1011	Giddings, Luther E.	*372, *647
Bryan, Dorothy	258	Denham, Margaret	*21	Glass, Robert	*399
Bryan, Marian S.	*873	Derryberry, Mayhew	*98		
Buchanan, Lee M.	**1123				
Burgdorf, Alfred L.	233				

Glesne, Lillian R. B.	*175	Knauf, George M.	215	Metzner, Franz	912
Goddard, James L.	259, *523	Knobloch, Hilda	*285	Miller, David C.	*392
Godwin, Richard P.	*669	Knutson, John W.	357	Miller, Norman	227
Goldsmith, John R.	412, *551	Koplin, Allen N.	238	Mills, Paul A.	*1109
Goldstein, H.	**1024	Kotin, Paul	413	Mitchell, Charles F.	*478
Gooch, Marjorie	*833	Kramer, H. P.	*119	Mitchell, James P.	686
Goodloe, Mary Helen R.	*298	Kramer, Lucy M.	*67, *210, *721	Mock, James F.	*891
Gordon, John E.	*49	Kramer, M.	**1024	Moeller, D. W.	*119
Gordon, Tavia	242	Kramm, Elizabeth R.	*764	Moen, B. Duane	251
Gorwitz, Kurt	243	Kraus, Arthur S.	244	Molina, Alfredo Jauregui	*771
Gowings, Dan D.	454	Kraybill, Herman F.	255	Moore, Alice	233
Graves, L. M.	*21			Moore, Edward W.	*428
Greenway, D. J.	*1011	Lackman, David B.	*737	Moore, Virginia M.	*957
Gundersen, Gunnar	*615	Lamb, Anne	246	Moran, Mabel	247
		Lambert, Anne	*957	Morris, Robert C.	*916
Habermann, Robert T.	*165	Larrick, George P.	550	Morton, Roy J.	213
Hackley, John A.	238, *989	Larson, Carl L.	*175	Moyer, R. E.	401
Hadlow, William J.	*60	Lavell, Martha	*309, *455	Muñoz, Nemesio Torres	*771
Haldeman, Jack C.	*405	Law, Frank E.	251	Murphy, John C.	*995
Hall, Lawrence B.	**1123	Lawrence, Joseph	*77	Murray, Walter A., Jr.	*461
Harris, Ad	*473	Lawrence, Philip S.	*195	Mushkin, Selma J.	*795
Harris, Marvin M.	**1123	Leatherwood, Ernest C., Jr.	*127	Myers, Delmar K.	452
Harting, Donald	224	LeMaistre, Charles	*271	Myers, Robert J.	*975
Hartman, Jane	*607	Lembcke, Paul A.	*674	Myriantopoulos, N. C.	*1098
Hauser, Philip M.	1080	Lester, Mary R.	240		
Hayes, Wayland J., Jr.	*105	Lewis, Fred D., Jr.	*127	Nelson, Norton	410
Heap, Beth	*1086	Lewis, Robert H.	242	Newman, Max Karl	1084
Hedrich, A. W.	235	Lieben, Jan	912	Niemeyer, L. E.	913
Hermansen, David R.	*674	Lillienfeld, Abraham M.	*29	Norman, Vivian B.	*943
Hess, Arthur E.	232	Lippmann, Morton	**939	Norton, J. W. R.	230, 246
Hewitt, Robert T.	*1080	Lipscomb, Wendell R.	218	Nota, N.	*1011
Hodges, Allen	*296	Lodge, James P.	424		
Horwitz, Abraham	276, 974	Longaker, Ralph K.	*669	O'Brien, Henry R.	*559
Howell, Max D.	417	Losty, Margaret A.	248	Odoroff, Maurice E.	*316, *573
Huebner, Robert J.	*6			Olson, R. T.	912
Hueper, W. C.	911	Macgregor, Gordon	224	Oppenheimer, Ella	246
Hull, John E.	419	Mackel, Donald C.	*746		
Hunt, M. Estelle	240	MacLean, Basil C.	1082	Painter, Robert C.	242
Hutchison, Richard	238	Maddock, Darrell R.	*349	Park, Chai Bin	1108
		Magallon, Dorothy T.	*360	Park, George E.	257
Ingalls, Theodore H.	245	Magnuson, Harold J.	230	Parodi, A. S.	*1011
Ingraham, Samuel C. II	*885	Mahler, Margaret S.	*957	Parrish, Henry M.	*891
Ingram, William Marcus	*1059	Mainardi, Luis E.	*265	Pasamanick, Benjamin	*285
Isbell, Harris	*755	Malachowski, Estelle T.	*601	Payne, Fred J.	*746
Iskrant, Albert P.	259	Mallis, Arnold	452	Payne, William W.	911
		Mandel, Margaret R.	246	Pecsok, D. A.	*119
Jacobziner, Harold	*567	Masi, Alfonse T.	*265	Pennell, Maryland Y.	239
Janssen, Wallace F.	*635	Masland, Richard L.	244	Perkins, Georgia B.	249
Johnson, Bruce K.	238	Mathis, Willis	*379	Person, P. H., Jr.	**1024
Johnson, Frank	257	Matthis, Austin W.	*473	Peters, Henry B.	257
Johnston, Helen L.	222	Mattson, Phyllis H.	*444	Peterson, Beatrice	242
		Mayes, W. F.	226	Peterson, Paul Q.	241
Kabler, Paul W.	215	McCombie, F.	252	Petrie, Lester M.	231
Kagan, Abraham	242	McDermott, Walsh	356, *485	Phaneuf, Maria	220
Kagan, Irving G.	*159	McGuinness, Aims C.	*546, *870	Philip, Cornelius B.	*595
Kannel, William B.	*242	McNaughton, Jean W.	254	Phillip, Robert N.	*737
Kaufman, Mildred	*873	Meacham, Edward D.	*341	Phillips, Bernard S.	227, 1078
Keehn, Robert J.	243	Mellor, Joseph F., Jr.	452	Philp, John R.	219
Kennedy, Harold W.	422	Menges, R (obert) W.	*149, *271	Phipard, Esther F.	254
Kilander, H. Frederick	255	Meredith, Alla P.	242	Pickens, Edgar G.	*60
Kleinfeld, Morris	906	Mettler, N.	*1011	Pirkle, Carl I.	*746
				Poland, Eleanor	*674

Pollack, E. S.	**1024	Schoof, H. F.	*379	Trice, Harrison M.	*153
Porter, Merilys E.	*621	Schraufnagel, F. H.	*133	Troll, Walter	911
Porterfield, John D.	218, *303	Scrimshaw, Nevin S.	355	Tuckman, Jacob	*309, *455, *849
Portnoy, Joseph	*965	Senn, Charles L.	230	Tureen, Louis L.	221
Pratt, William F.	*189	Shiffman, Morris A.	236		
Price, David E.	*693	Shapiro, Harvey L.	225	Underwood, Bruce	*986
Price, Eleanor V.	*473	Shwartz, Samuel	236	Urbanich, E. M.	247
Purdom, P. W.	236	Siffert, Robert S.	248		
		Silverman, Hilda F.	*1117	Van Wyck, R. W.	907
Quarterman, K. D.	*379	Simmons, William D.	*444	Vavra, Catherine	258
Quinlan, Carroll B.	*298	Simpson, W. G.	*473	Vester, Kelly G.	230
		Sirken, Monroe G.	*764	Voorhis, Jerry	223
Rader, Virginia	*55	Skaliy, Peter	**1123		
Ralston, Lloyd S.	242	Small, Bartlett R.	913	Wagner, Donald C.	426
Raup, Ruth M.	*861	Smith, Lee W.	*372	Wallace, Helen M.	256, *1041
Revotskie, Nicholas	242	Smith, Lucille M.	239	Watrous, R. M.	912
Reinhard, Karl R.	*737	Snyder, Sylvia B.	248	Watson, George M.	700
Richardson, Elliott L.	*661	Sooter, Clarence A.	*372, *647	Weeks, Willard T.	*737
Rivero, E.	*1011	Soper, Fred L.	275, 358	West, Howard	236
Robbins, David	235	Sowder, Wilson T.	*77, *711	West, Margaret D.	*861
Roderick, Howard F.	419	Spalding, Charles K.	908	Whayne, Tom F.	*170
Roemer, Milton I.	237, *916	Stanfill, Robert C.	449	White, Carl L.	*289
Rogers, Lewis H.	*551	Stanford, Marian R.	*383	White, Stanley C.	216
Rogers, Kenneth D.	*925	Starr, Helen M.	256	Wilkinson, W. A.	221
Rose, Andrew H., Jr.	425	Starr, L. E.	*271	Williams, Harry A.	417
Rosen, George	*199	Stitt, Pauline G.	247	Wilson, Charles L.	216
Rosenstock, Irwin M.	*98, 224	Stokes, Joseph III	242	Wilzbach, C. A.	*439
Ross, Sister Hilary	*45	Stokinger, Herbert E.	**939	Wolf, Harold W.	**1123
Rugiero, H. R.	*1011	Stuart, R. D.	*431	Wolff, Arthur H.	*42
Russell, A. L.	251, *289	Symons, Noel S.	910	Wood, John E.	*115
Russell, Findlay E.	*855			Woodbury, Coleman	214
		Taubenhaus, Leon J.	257		
Saenger, Eugene L.	906	Tebbens, Bernard D.	915	Yaffe, Charles D.	*823
Sagen, Oswald K.	234	Thrupp, Lauri D.	*535	Yedidia, Avram	222
Salber, Eva J.	247	Timm, Eugene A.	250	Young, Marjorie A. C.	257
Sanders, Barkev S.	*13, 224, 233	Timothee, Rafael A.	*265		
Schlesinger, Edward R.	248, *1117	Towne, W. W.	*1059	Zavon, M. R.	*439
		Trasko, Victoria M.	*823	Zukel, William J.	241

EDITOR'S CORRECTION

In the article entitled "Inapparent Infection: Relation of Latent and Dormant Infections to Microbial Persistence," by Walsh McDermott, M.D., *Public Health Reports*, June 1959, the seven paragraphs beginning with "It might well be questioned . . ." on page 493, middle of the first column, and ending with ". . . with dysentery bacilli" on page 494, bottom of first column, should be inserted on page 489, second column, preceding the subhead "The Antimicrobial Drug."